

E G WRITE PROCESSING METHOD FOR ... 2/27/04 Murai et al. Greer, Burns & Crain, Ltd. (Patrick Burns)
Ref. No. 3408.69858
Sheet 2 of 9 (312) 360 0080

12A FIG. 2 1F7 1F2 1F5 1F4 1F3 1F1 1F6 Cylinder Cylinder Sector Device/He Sector Command High Low Number **Features** Count ad Register (LBA High) (LBA Mid) (LBA Low) Register

Register

Register

Register

Register

Register

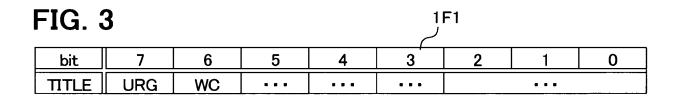
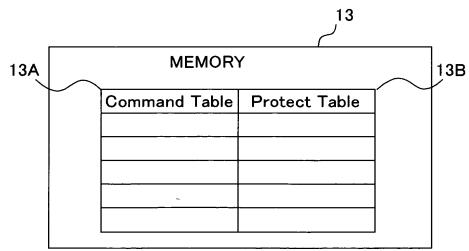


FIG. 4



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FIG. 5

1	3	A

Command	START LBA	Sector Count	Protect bit
0x3B	0x1000	0x0100	0
0x3B	0x2000	0×0200	0
0x3B	0x0001	0x000C	1
0x3B	0x000D	0x0010	1
<u>:</u>		:	:

13B

Command No.	START LBA	Sector Count	Buffer Address	Protect bit
0xFF	0xFFFFFFF	0x0000	0xFFFFFFF	:1:
0xFF	0xFFFFFFF	0×0000	0xFFFFFFF	1 .
0xFF	0xFFFFFFF	0x0000	0xFFFFFFF	1
0xFF	0xFFFFFFF	0x0000	0xFFFFFFF	12
		:	:	:

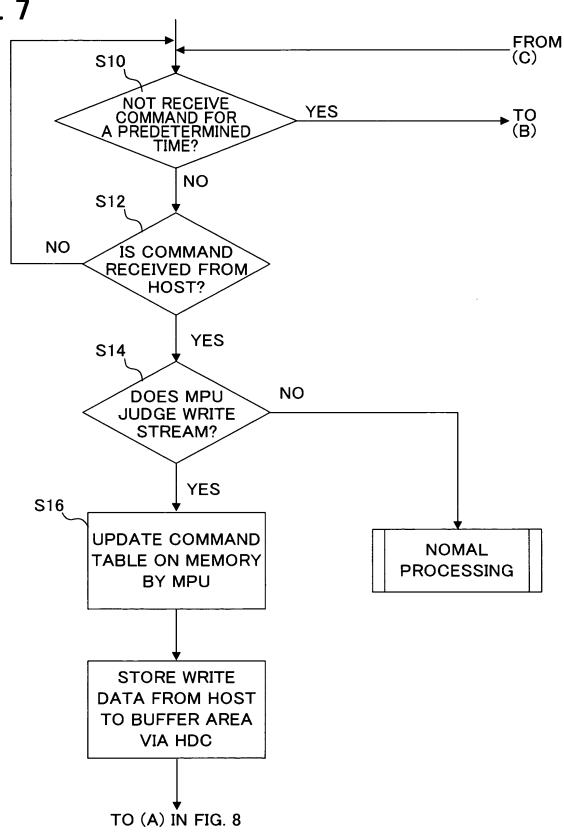
FIG. 6

14

Buffer Address 0x0000 : LBA 1
Buffer Address 0x0200 : LBA 2
Buffer Address 0x0400 : LBA 3
Buffer Address 0x0600 : LBA 4
Buffer Address 0x0800 : LBA 5
Buffer Address 0x0A00 : LBA 6
Buffer Address 0x0C00 : LBA 7
Buffer Address 0x0E00 : LBA 8
Buffer Address 0x1000 : LBA 9
Buffer Address 0x1200 : LBA 10
Buffer Address 0x1400 : LBA 11
Buffer Address 0x1600 : LBA 12
:
:

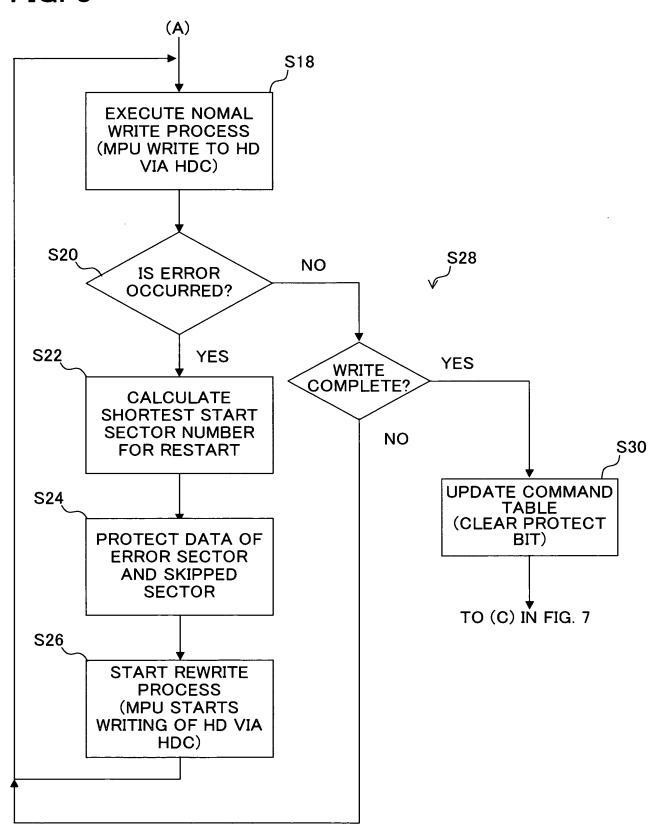
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FIG. 7



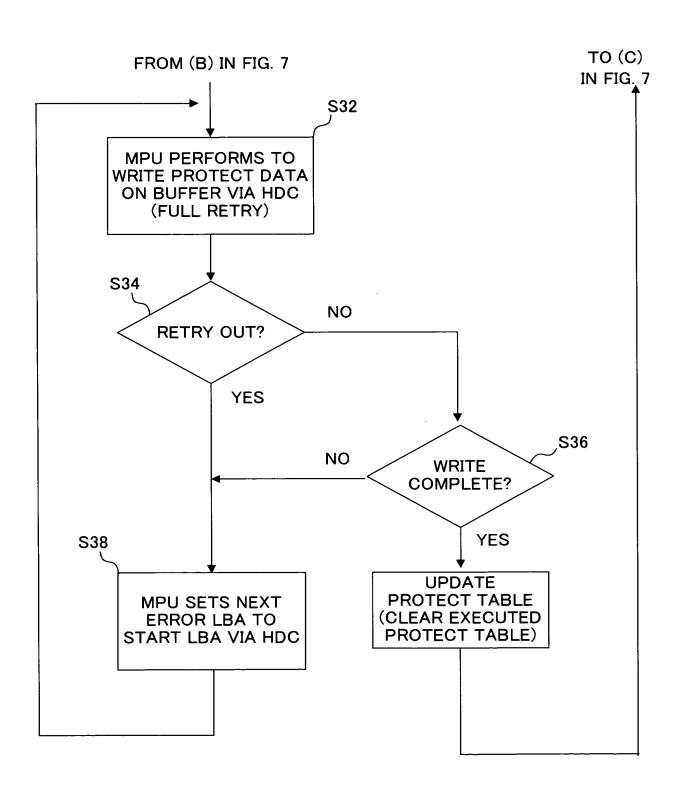
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FIG. 8



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FIG. 9



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 ∞ **⊘** × WRITING SKIPPED SECTOR CONTINUOUS WRITING က LBA1

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FIG. 11

	1F7	1 F6	1 F 5	1F4	1F3	1F2	1F1
No.0	0x3B	0xE0	0x00	0x10	0x00	0x80	0x80
No.1	0x3B	0xE0	0x00	0×20	0x00	0xFF	0x80
No.2	0x3B	0xE0	0x00	0x00	0x01	0x0C	0x80
No.3	0x3B	0xE0	0x00	0x00	0x0D	0x10	0x80
	•		•	•		•	•

FIG. 12

Command Table -WHEN EXECUTING Command No.2

13A

13A

Command	START LBA	Sector Count	Protect bit
0x3B	0×1000	0x0100	0
0x3B	0×2000	0×0200	0
0x3B	0x0001	0x000C	1
0x3B	0x000D	0x0010	1
:	:	:	:

Command Table -AFTER EXECUTED Command No.2

Command	START LBA	Sector Count	Protect bit
0x3B	0x1000	0x0080	0
0x3B	0x2000	0x00FF	0
0x3B	0x0001	0x000C	0
0x3B	0x000D	0x0010	0
:	:	:	:

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FIG. 13

Protect Table -WHEN EXECUTING Command No.2

13B

13B ∫

Command No.	START LBA	Sector Count	Buffer Address	Protect bit
0xFF	0xFFFFFFF	0×0000	0xFFFFFFF	1
0xFF	0xFFFFFFF	0×0000	0xFFFFFFF	11
0xFF	0xFFFFFFF	0x0000	0xFFFFFFF	11
0xFF	0xFFFFFFF	0x0000	0xFFFFFFF	11
:	:	:	:	

Protect Table -AFTER EXECUTED Command No.2

Command No.	START LBA	Sector Count	Buffer Address	Protect bit	
0x3B	0x0000005	0×0006	0×00000000	1	
0xFF	0xFFFFFFF	0×0000	0xFFFFFFF	1	
0xFF	0xFFFFFFF	0×0000	0xFFFFFFF	1	
0xFF	0xFFFFFFF	0×0000	0xFFFFFFF	1	
:	: :	:	:	:	
	-				